

AMENDMENTS TO THE CLAIMS

Upon entry of this amendment, the following listing of claims will replace all prior versions and listings of claims in the pending application.

IN THE CLAIMS

Please cancel claims 1, 2, 4-17, 19-20, 22, 31-32, 34-47, 49-50 and 52, and add new claims 61-80 as follows:

1-60. (Canceled).

61. (New) A method for assigning a unique network identifier to each remote display protocol (RDP) session established via a device intermediary between a server and at least one client, the device executing an application for establishing each RDP session and delivering a service from the server via a corresponding RDP session to the at least one client, the method comprising:

(a) allocating, by a device intermediary between a server and at least one client operated by a user, a plurality of network identifiers to the user;

(b) establishing, by the device, a first RDP session between the server and a first client operated by the user;

(c) selecting, by the device from the plurality of network identifiers, a first network identifier to assign to the first RDP session;

(d) establishing, by the device, a second RDP session between the server and a second client operated by the user;

(e) selecting, by the device from the plurality of network identifiers, a second network identifier different from the first network identifier to assign to the second RDP session;

(f) receiving, by the device via a port of the device a first network communication received from the server;

(g) identifying, by the device, the first network identifier in the first network communication;

(h) communicating, by the device, the first network communication to the first client of the first RDP session responsive to the identification of the first network identifier;

(i) receiving, by the device via the same port of the device a second network communication received from the server;

(j) identifying, by the device, the second network identifier in the second network communication; and

(k) communicating, by the device, the second network communication to the second client of the second RDP session responsive to the identification of the second network identifier.

62. (New) The method of claim 61, wherein each network identifier comprises one of either of an internet protocol address, a host name, and a loopback address.

63. (New) The method of claim 61, wherein step (a) further comprises obtaining, from a server, at least one of the plurality of network identifiers.

64. (New) The method of claim 61, wherein step (a) further comprises obtaining, from a Dynamic Host Configuration Protocol server, at least one of the plurality of network identifiers.

65. (New) The method of claim 61, wherein step (c) further comprises selecting the first network identifier for the first RDP session responsive to establishing the first RDP session.

66. (New) The method of claim 61 further comprising hosting concurrently, by the device, the first RDP session and the second RDP session.

67. (New) The method of claim 61 further comprising hosting, by the device, the second RDP session subsequent to the hosting of the first RDP session.

68. (New) The method of claim 61 further comprising transmitting, by the device to the server, the first network identifier with a network communication originating from the first client.

69. (New) The method of claim 61 further comprising assigning the first network identifier to the first RDP session for network communications using a socket library.

70. (New) The method of claim 69 further comprising modifying a call from an application executing the RDP session to the socket library, the modification comprising including in the call the network identifier for mapping to a socket, the socket for handling network communications of the RDP session.

71. (New) A system for assigning a unique network identifier to each remote display protocol (RDP) session established via a device intermediary between a server and at least one client, the device executing an application for establishing each RDP session and delivering a service from the server via a corresponding RDP session to the at least one client, the system comprising:

means for allocating, by a device intermediary between a server and at least one client operated by a user, a plurality of network identifiers to the user;

means for establishing, by the device, a first RDP session between the server and a first client operated by the user;

means for selecting, by the device from the plurality of network identifiers, a first network identifier to assign to the first RDP session;

means for establishing, by the device, a second RDP session between the server and a second client operated by the user;

means for selecting, by the device from the plurality of network identifiers, a second network identifier different from the first network identifier to assign to the second RDP session;

means for receiving, by the device via a port of the device a first network communication received from the server;

means for identifying, by the device, the first network identifier in the first network communication;

means for communicating, by the device, the first network communication to the first client of the first RDP session responsive to the identification of the first network identifier;

means for receiving, by the device via the same port of the device a second network communication received from the server;

means for identifying, by the device, the second network identifier in the second network communication; and

means for communicating, by the device, the second network communication to the second client of the second RDP session responsive to the identification of the second network identifier.

72. (New) The system of claim 71, wherein each network identifier comprises one of either of an internet protocol address, a host name, and a loopback address.

73. (New) The system of claim 71 further comprising means for obtaining, from a server, at least one of the plurality of network identifiers.

74. (New) The system of claim 71 further comprising means obtaining, from a Dynamic Host Configuration Protocol server, at least one of the plurality of network identifiers.

75. (New) The system of claim 71 further comprising means for selecting the first network identifier for the first RDP session responsive to establishing the first RDP session.

76. (New) The system of claim 71 wherein the device hosts the first RDP session and the second RDP session concurrently.

77. (New) The system of claim 71 wherein the device begins to host the second RDP session after hosting the first RDP session.

78. (New) The system of claim 71 further comprising means for transmitting, by the device to the server, the first network identifier with a network communication originating from the first client.

79. (New) The system of claim 71 further comprising means for assigning the first network identifier to the first RDP session for network communications using a socket library.

80. (New) The system of claim 79 further comprising means for modifying a call from an application executing the RDP session to the socket library, the modification comprising including in the call the network identifier for mapping to a socket for handling network communications of the RDP session.